

AQ0030

2016 PAPOOSE CREEK DATA

COARSE WOODY HABITAT FIELD FORM

Entered by C F
08/10/16

Stream <u>210035R</u>		Site <u>US</u>		Date <u>08/10/16</u>	
BF width	<u>3.4m</u>	BF depth	<u>1/2 0.31m</u>	FP width	<u>5.9m</u>
W/D Ratio:	<u>7.08</u>	<u>1/4 0.40m</u>	<u>3/4 0.48m</u>	Entrenchment Ratio:	
Pool Quality					
>1m deep with good cover					
>1m deep with inadequate cover					
<1m deep <u> </u>					
Wood Habitat					
Length (m)	<u>8.7</u>	<u>1.3</u>	<u>3.0</u>	<u>1.3</u>	<u>8.5</u>
Diameter (cm)	<u>37.0</u>	<u>15.0</u>	<u>13.8</u>	<u>13.8</u>	<u>19.2</u>
Elevation (cm)	<u>0</u>	<u>-15</u>	<u>0</u>	<u>0</u>	<u>+400</u>
Braced?	<u>NO</u>	<u>YES</u>	<u>YES</u>	<u>NO</u>	<u>YES</u>
Rootwad?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>
Length (m)	<u>4.7</u>	<u>1.5</u>	<u>6.1</u>	<u>5.3</u>	<u>3.0</u>
Diameter (cm)	<u>46.8</u>	<u>31.6</u>	<u>60.1</u>	<u>18.0</u>	<u>34.8</u>
Elevation (cm)	<u>+35</u>	<u>-10</u>	<u>+80</u>	<u>+120</u>	<u>0</u>
Braced?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>YES</u>
Rootwad?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>
Length (m)	<u>2.7</u>	<u>4.5</u>	<u>7.0</u>	<u>1.3</u>	<u>4.1</u>
Diameter (cm)	<u>12.0</u>	<u>11.8</u>	<u>28.9</u>	<u>13.1</u>	<u>39.0</u>
Elevation (cm)	<u>+5</u>	<u>+10</u>	<u>+70</u>	<u>-10</u>	<u>0</u>
Braced?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>
Rootwad?	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>	<u>NO</u>
Length (m)	<u>2.5</u>				
Diameter (cm)	<u>11.5</u>				
Elevation (cm)	<u>+40</u>				
Braced?	<u>NO</u>				
Rootwad?	<u>NO</u>				
Erosion Features Contributing to Stream					
Dimensions:		Lat:		Lon:	
Photo #:	GPS Waypoint #:				
Type:	<input type="checkbox"/> Bank shear / sluff <input type="checkbox"/> Headcut <input type="checkbox"/> Rill <input type="checkbox"/> Major deposition <input checked="" type="checkbox"/> Other <u>NONE</u>				
Source:	<input type="checkbox"/> Hoof action <input type="checkbox"/> Grazing <input type="checkbox"/> Road surface <input type="checkbox"/> Road-stream crossing <input type="checkbox"/> System road <input type="checkbox"/> Non-system road				
% Bare Ground:	<u><10%</u>				
Dominant understory vegetation:	<u>Op. Shrub</u>				
Notes:	<u>No signs of erosion. site is remote and heavily vegetated. Bare ground consists of bare steep rock faces.</u>				

PFANKUCH STREAM CHANNEL STABILITY FORM

Stream: Date: Surveyor:
 Reach: GPS Location (Degrees): N W

Variable	Excellent	Good	Fair	Poor
Upper Banks				
Landform Slope	Bank slope gradient <30%	Bank slope gradient 30-40%	Bank slope gradient 40-60%	Bank slope gradient >60%
Mass-Wasting	No evidence of post or any potential for future mass-wasting into channel	Infrequent and/or very small. Mostly healed over w/low future potential	Moderate frequency and size, with some raw spots eroded by water during high flows	Frequent or large, causing sediment OR imminent danger of same
Debris Jam potential	Essentially absent from immediate channel area	Present but mostly small twigs and limbs	Present, volume and size are both increasing	Moderate to heavy amounts, mainly larger sizes
Vegetative Bank Protection	>90% plant density. Vigor and variety suggests a deep, dense soil-binding root mass	70-90% density. Fewer plant species or lower vigor suggests a less dense or deep root mass	50-70% density. Lower vigor and species form a somewhat shallow and discontinuous root mass	<50% density plus fewer species and vigor indicate discontinuous and shallow root mass
Channel Capacity	Ample for present plus some increases. Peak flows contained. W/D ratio <7	Adequate. Overbank flows rare. W/D ratio 8-15	Barely contains present peaks. Occasional overbank floods. W/D ratio 15-25	Inadequate. Overbank flows common. W/D ratio >25
Lower Banks				
Bank Rock Content	65% with large, angular boulders; 30cm numerous	40-65%, mostly small boulders to cobbles, 15-30cm	20-40%, with most in the 7.5-15cm class	<20% rock fragments of gravel sizes, 2.5-7.5cm
Obstructions (Flow deflectors and sediment traps)	rocks and old logs firmly embedded. Flow pattern without cutting or deposition. Pools and riffles stable	Some present, causing erosive cross currents and minor pool filling. Obstructions newer and less firm	Moderately frequent, unstable obstructions and deflectors move with high water causing bank cutting and filling of pools	Frequent obstructions and deflectors cause bank erosion. Sediment traps full channel migration occurring.
Undercutting	Little or none evident. Infrequent raw banks <150cm high	Some, intermittently at outcures and constrictions. Raw banks <30cm	Significant. Cuts 15-30cm high. Root mat overhangs and sloughing evident	Almost continuous cuts, some >30cm high. Failure of overhangs
Deposition	Little or no enlargement of channel or point bars	Some new increase in bar formation, mostly from coarse gravel	Moderate deposition of new gravel and coarse sand on bars	Extensive deposits of predominantly fine particles
Stream Bed				
Rock Angularity	Sharp edges and corners, plane surfaces roughened	Rounded corners and edges. Smooth and flat	Corners and edges well rounded in two dimensions	Well rounded in all dimensions
Brightness	Surfaces dull, darkened, or stained. Not bright	Mostly dull, but may have up to 35% bright surfaces	Mixture, 50-65% bright surfaces	Predominantly bright, 65%, exposed surfaces
Consolidation or particle packing	Assorted sizes tightly packed and/or overlapping	Moderately packed, with some overlapping	Mostly loose assortment with no apparent overlap	No packing evident. Loose, easily moved
Bottom Size Distribution & Stability	No change in sizes evident. Stable materials 80-100%	Distribution shift slight. Stable materials 50-80%	Moderate change in sizes. Stable materials 20-50%	Marked change. Stable materials 0-20%
Scouring and Deposition	<5% of the bottom affected by scouring and deposition	5-30% affected. Scour at constrictions and where steep. Pool deposition	30-50% affected, deposits and scour at obstructions, and constrictions	>50% of bed in a state of flux or change nearly year-long
Clinging Aquatic Vegetation (moss and algae)	Abundant, growth largely moss, dark green, perennial, and in swift water too	Common, algal forms in low velocity, and pool areas. Moss and swift waters	Present, but mostly spotty in backwater areas. Seasonal blooms	Perennial types scarce or absent. Yellow-green short term bloom present
Column Totals				

Total Score: 90 Reach Score of: <38 = Excellent, 39-76 = Good, 77-114 = Fair, 115+ = Poor

8/8

Stream: **Papo+A1:J22ose Creek** Date: **08/10/2016** Surveyor: **Aquatics 2016**
 Reach: **Upstream** GPS Location (Degrees): **N 45.38853 W 116.43603**

	Variable	Excellent	Good	Fair	Poor
Upper Banks	Landform Slope	Bank slope gradient <30%	Bank slope gradient 30-40%	Bank slope gradient 40-60%	Bank slope gradient >60%
	Mass-Wasting	No evidence of post or any potential for future mass-wasting into channel	Infrequent and/or very small. Mostly healed over w/low future potential	Moderate frequency and size, with some raw spots eroded by water during high flows	Frequent or large, causing sediment OR imminent danger of same
	Debris Jam potential	Essentially absent from immediate channel area	Present but mostly small twigs and limbs	Present, volume and size are both increasing	Moderate to heavy amounts, mainly larger sizes
	Vegetative Bank Protection	>90% plant density. Vigor and variety suggests a deep, dense soil-binding root mass	70-90% density. Fewer plant species or lower vigor suggests a less dense or deep root mass	50-70% density. Lower vigor and species form a somewhat shallow and discontinuous root mass	<50% density plus fewer species and vigor indicate discontinuous and shallow root mass
	Channel Capacity	Ample for present plus some increases. Peak flows contained. W/D ratio <7	Adequate. Overbank flows rare. W/D ratio 8-15	Barely contains present peaks. Occasional overbank floods. W/D ratio 15-25	Inadequate. Overbank flows common. W/D ratio >25

Lower Banks	Bank Rock Content	65% with large, angular boulders; 30cm numerous		40-65%, mostly small boulders to cobbles, 15-30cm	4	20-40%, with most in the 7.5-15cm class	<20% rock fragments of gravel sizes, 2.5-7.5cm
	Obstructions (Flow deflectors and sediment traps)	rocks and old logs firmly embedded. Flow pattern without cutting or deposition. Pools and riffles stable		Some present, causing erosive cross currents and minor pool filling. Obstructions and deflectors newer and less firm	4	Moderately frequent, unstable obstructions and deflectors move with high water causing bank cutting and filling of pools	Frequent obstructions and deflectors cause bank erosion. Sediment traps full channel migration occurring.
	Undercutting	Little or none evident. Infrequent raw banks <150cm high		Some, intermittently at outcures and constrictions. Raw banks <30cm	8	Significant. Cuts 15-30cm high. Root mat overhangs and sloughing evident	Almost continuous cuts, some >30cm high. Failure of overhangs
	Deposition	Little or no enlargement of channel or point bars		Some new increase in bar formation, mostly from coarse gravel		Moderate deposition of new gravel and coarse sand on bars	# Extensive deposits of predominantly fine particles
Stream Bed	Rock Angularity	Sharp edges and corners, plane surfaces roughened		Rounded corners and edges. Smooth and flat	2	Corners and edges well rounded in two dimensions	Well rounded in all dimensions
	Brightness	Surfaces dull, darkened, or stained.		Mostly dull, but may have up to 35% bright	2	Mixture, 50-65% bright surfaces	Predominantly bright, 65% exposed surface
	Consolidation or particle packing	Assorted sizes tightly packed and/or overlapping		Moderately packed, with some overlapping	4	Mostly loose assortment with no apparent overlap	No packing evident. Loose, easily moved
	Bottom Size Distribution & Stability	No change in sizes evident. Stable materials 80-100%		Distribution shift slight. Stable materials 50-80%		Moderate change in sizes. Stable materials 20-50%	# Marked change. Stable materials 0-20%
	Scouring and Deposition	<5% of the bottom affected by scouring and deposition		5-30% affected. Scour at constrictions and where steep. Pool deposition		30-50% affected, deposits and scour at obstructions, and constrictions	# >50% of bed in a state of flux or change nearly year-long
	Clinging Aquatic Vegetation (moss and algae)	Abundant, growth largely moss, dark green, perennial, and in swift water too		Common, algal forms in low velocity and pool areas. Moss and swift waters	2	Present, but mostly spotty in backwater areas. Seasonal blooms	Perennial types scarce or absent. Yellow-green short term bloom present

Data entered
06-813/16

Stream		Barro Colorado		Site		DS		Date		07/25/18	
BF width		2.8 m		BF depth		11.2 m		FP width		3.8 m	
W/D Ratio:		11.2		Entrenchment Ratio:							
Rosen Stream Class:		11.2									
Pool Quality											
>1m deep with good cover											
>1m deep with inadequate cover											
<1m deep		NA									
Wood Habitat											
Length		11.9 m		7.3 m		2.4 m		5.7 m		2.2 m	
Diameter		11 cm		12 cm		50 cm		51 cm		12 cm	
Elevation		4 cm		-43 cm		+71 cm		+70 cm		+79 cm	
Braced?		NO		NO		NO		NO		NO	
Rootwad?		NO		YES		NO		NO		NO	
Length		11.1 m		2.2 m		6.1 m		2.7 m		8.5 m	
Diameter		41 cm		20 cm		35 cm		16.8 cm		16.8 cm	
Elevation		+35 cm		+22 cm		+15 cm		-16 cm		4 cm	
Braced?		YES		YES		YES		YES		NO	
Rootwad?		YES		NO		NO		NO		NO	
Length											
Diameter											
Elevation											
Braced?											
Rootwad?											
Erosion Features Contributing to Stream											
Dimensions:				GPS Waypoint #:		Lat: 45.37752		Lon: 110.41055			
Photo #:											
Type:		<input type="checkbox"/> Bank shear / sluff		<input type="checkbox"/> Headcut		<input type="checkbox"/> Rill		<input type="checkbox"/> Major deposition		<input type="checkbox"/> Other: <u>scattered</u>	
Source:		<input checked="" type="checkbox"/> Hoof action		<input type="checkbox"/> Grazing		<input type="checkbox"/> Road surface		<input type="checkbox"/> Road-stream crossing		<input type="checkbox"/> System road	
% Bare Ground:		<1%		Dominant understory vegetation:						<input type="checkbox"/> Other: <u>haze</u>	
Notes:											

PFANKUCH STREAM CHANNEL STABILITY FORM

DE-D6
8/3/16

Stream: Deer Creek Date: 7/12/2016 Surveyor: Appendix
Reach: 125 GPS Location (Degrees): N 45-58.702 W 116-44.025

UPPER BANKS	EXCELLENT	GOOD	FAIR	POOR
Landform slope	Bank slope gradient <30%	Bank slope gradient 30-40%	Bank slope gradient 40-60%	Bank slope gradient >60%
Mass-wasting (existing or potential)	No evidence of post or any potential for future mass-wasting into channel.	Infrequent and/or very small. Mostly healed over. Low future potential.	Moderate frequency and size. With some raw spots eroded by water during high flows.	Frequent or large causing sediment OR imminent danger of same.
Debris jam potential (floatable objects)	Essentially absent from immediate channel area.	Present but mostly small twigs and limbs.	Present, volume and size are both increasing.	Moderate to heavy amounts, mainly larger sizes.
Vegetative bank protection	>90% plant density. Vigor and variety suggests a deep, dense, soil binding root mass.	70-90% density. Fewer plant species or lower vigor suggests a less dense or deep root mass.	50-70% density. Lower vigor and species form a somewhat shallow and discontinuous root mass.	<50% density plus fewer species and vigor indicate discontinuous and shallow root mass.
Channel capacity LOWER BANKS	Ample for present plus some increases. Peak flows contained. Width to Depth (W/D) ratio <7.	Adequate. Overbank flows rare. W/D ratio 8 to 15.	Barely contains present peaks. Occasional over-bank floods. W/D ratio 15 to 25.	Inadequate. Overbank flows common. W/D ratio >25.
Bank rock content	65% with large, angular boulders 30cm numerous.	40 to 65%, mostly small boulders to cobbles 15-30cm.	20 to 40%, with most in the 7.5-15cm diameter class.	>20% rock fragments of gravel sizes, 2.5-7.5 cm or less.
Obstructions (flow deflectors without cutting or deposition. Sediment traps)	Rocks and old logs firmly embedded. Flow pattern without cutting or deposition. Pools and riffles stable.	Some present, causing erosive cross currents and minor pool filling. Obstructions and deflectors newer and less firm.	Moderately frequent. Instable obstructions and deflectors move with high water causing bank cutting and filling of pools.	Frequent obstructions and deflectors cause bank erosion. Sediment traps full channel migration occurring.
Undercutting	Little or none evident. Infrequent raw banks <150cm high.	Some, intermittently at outcrops and constrictions. Raw banks <30cm.	Significant. Cuts 15-30cm high. Root mat overhangs and sloughing evident.	Almost continuous cuts. Some >30cm high. Failure of overhangs.
Deposition STREAM BED	Little or no enlargement of channel or point bars.	Some new increase in bar formation, mostly from coarse gravels.	Moderate deposition of new gravel and coarse sand on old and some new bars.	Extensive deposits of predominantly fine particles. Accelerated
Rock angularity	Sharp edges and corners. Plane surfaces roughened.	Rounded corners and edges. Smooth and flat.	Corners and edges well rounded in two dimensions.	Well rounded in all dimensions.
Brightness	Surfaces dull, darkened or stained. Not "bright".	Mostly dull, but may have up to 35% bright surfaces.	Mixture, 50-50% dull and bright, i.e. 35-65%.	Predominantly bright, 65%, exposed surfaces.
Consolidation of particle packing	Assorted sizes tightly packed and/or overlapping.	Moderately packed with some overlapping.	Mostly a loose assortment with no apparent overlap.	No packing evident. Loose, easily moved.
Bottom size distribution & stable	No change in sizes evident. Stable materials 80-100%.	Distribution shift slight. Stable materials 50-80%.	Moderate change in sizes. Stable materials 20-50%.	Marked change. Stable materials 0-20%.
Scouring and deposition	<5% of the bottom affected by scouring and deposition.	5-30% affected. Scour at constrictions and where sleep. Pool deposition.	30-50% affected. Deposits and scour at obstructions, constrictions, and bends.	>50% of bed in a state of flux or change nearly year-long.
Clinging aquatic vegetation (moss and algae)	Abundant, growth largely in swift water too.	Common. Algal forms in low velocity and pool areas. Moss and stiffer waters.	Present but spotty, mostly in backwater areas. Seasonal blooms.	Perennial types scarce or absent. Yellow-green, short term bloom present.
COLUMN TOTALS	6	16	16	16

Reach score of: <38 = Excellent, 39-76 = Good, 77-114 = Fair, 115+ = Poor

Total Score: 104

Notes:

Erosion features on back

8/1/16



Final Assessment Unit Status Report 2014

Assessment Unit ID: ID17060210SL001_02

Assessment Unit Name: Little Salmon River - 1st and 2nd order below Round Valley

Assessment Unit Type: RIVER

Assessment Unit Size: 98.54 MILES

Assessment Date: 12/03/2009

This Assessment Unit is in Category: 2

<u>Assessed Beneficial Use</u>	<u>Assessed Date</u>	<u>User Flag</u>	<u>Support Status</u>	<u>Category</u>
Cold Water Aquatic Life	12-03-2009	DESIGNATED	Fully Supporting	2
Secondary Contact Recreation	12-03-2009	PRESUMED	Fully Supporting	2

Monitoring Methods

Idaho WBAGII (January 2002) using BURP data

Beneficial Use Comments

Cold Water Aquatic Life

ID17060210SL001_02. No BURP information exists. Data exists to indicate spawning and rearing of salmonid species in this AU. However, since the data is not current, DEQ will put this assessment unit back in category 5 for sediment and conduct BURP inventory (s) of representative stream(s) in this AU to determine beneficial use support. 12/03/09 Assessment of 2007 BURP data indicate that this stream is fully meeting its CIVAL beneficial uses.

Secondary Contact Recreation

Bacteria sample taken at 2007 BURP Site. 5.2 MPN/100ml. HS

Monitoring History (1993 - Present)

<u>BURPID</u>	<u>STREAM</u>	<u>ELEV(ft)</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>SMIScore</u>	<u>SFIScore</u>	<u>SHIScore</u>	<u>AVGScore</u>
2008SLEWA029	Rattlesnake Creek	2766	45.26794	-116.33800	3	3	3	3.00
2007SBOIA034	North Fork Squaw Creek	3898	45.41824	-116.42431	3	1	3	2.33

